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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/619,990	07/20/2000	Patrick W. Kinney	DN38000HC	2553

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EXAMINER

ORGAD, EDAN

ART UNIT PAPER NUMBER

2682

DATE MAILED: 01/16/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

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Office Action Summary

Application No.

09/619,990

Applicant(s)

KINNEY ET AL.

Examiner

Edan Orgad

Art Unit

2682

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 20 July 2000.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-15 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-15 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s) 6
- 4) ☐ Interview Summary (PTO-413) Paper No(s) _____
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____

DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1, 2, 4-8 and 10-15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Barzegar et al (US Patent 5,559,501) in view of Rasmussen (US Patent # 5,373,149).

Regarding claims 1, 6, 11 and 12, Barzegar teaches a radio card (102) used in an electronic device having a device housing, a track (inherent) for engagingly receiving the radio card, a first interface and a first antenna, the radio card comprising: a card housing; a second interface (PCMCIA standard connection 206), disposed on the card housing, that, upon receipt of the radio card by the electronic device, engagingly couples with the first interface; a radio circuit, disposed within the card housing (RF circuit 173), communicatively coupled to the second interface. Barzegar further teaches a third interface being communicatively coupled to the radio circuit (207), but fails to specifically disclose that it is electrically and physically independent of the second interface, and that the third interface is engagingly coupling with the first antenna upon receipt of the radio card by the electronic device via the track. However, Rasmussen does disclose means for engaging a pair of receiving means antenna contacts (col. 3, lines 23-66 & col. 4, lines 4-9). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to combine Rasmussen's folding card assembly with antenna engaging means with Barzegar's plug in module in order to provide additional space for extra circuitry.

Regarding claims 2, 4, 7, 8, 13, Rasmussen teaches that it is possible to attach antenna to a frame meaning electronic device also having a fourth interface, and the fourth interface, disposed along the track (col. 3, lines 52-66). However Rasmussen fails to disclose, coupling the

Art Unit: 2682

third interface to the first antenna upon receipt of the radio card by the electronic device. However, it is well known in the art of card assembly to have the antenna coupled to the interface and therefore would have been an obvious modification to one of ordinary skill in the art the time the invention was made to use Rasmussen teaching's of antenna placement and coupling upon receipt of the card in order to assure proper reception.

Regarding claim 5, Rasmussen teaches the fourth interface comprising a plurality of contacts that are disposed at different locations on the card housing (element 56).

Regarding claims 10, 14 and 15, Barzegar teaches the third interface comprising a plurality of contacts disposed on the card housing and plurality of contacts are disposed at different locations on the card housing (figure 11).

Claims 3 and 9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Barzegar et al (US Patent 5,559,501) in view of Rasmussen (US Patent # 5,373,149) and further in view of Erkocevic (US Patent # 5,420,599).

Regarding claims 3 and 9, Barzegar in view Rasmussen fails to specifically disclose the electronic device also having a second antenna, and the third interface engagingly coupling with the second antenna upon receipt of the radio card by the electronic device. However, Erkocevic does disclose a plurality of antennas for providing antenna diversity (col.1, lines 38-61). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to use Erkocevic teachings of multiple antennas with Barzegar's card creating a more compact antenna member with the same gain and operational bandwidth.

Art Unit: 2682

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Edan Orgad whose telephone number is 703-305-4223. The examiner can normally be reached on 8:00AM to 5:30PM with every other Friday off..

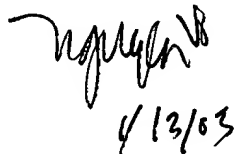
If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vivian Chin can be reached on 703-308-6739. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9314 for regular communications and 703-872-9314 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-305-3900.

Edan Orgad



January 10, 2003


4/13/03

NGUYEN T. VO
PRIMARY EXAMINER